

U179

OIL SHALE ASSAY REPORT

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GEOKINETICS, INC.
582 NORTH VERNAL AVE.
VERNAL, UT 84078

Geokinetics *36-1
36-125-24E
2689

Date: 07 MAY 82

Lab #: 820303 - GK #3-82

Project: W.D. 36-1

Core Hole: 36-1

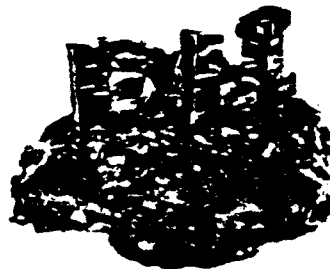
Elevation: 68048'

Location:

Remarks: 80 SAMPLES; AIR DRIED.

Sample Number	Client ID	Gallons/Ton		Weight Percent				Specific Gravity 60°/60°F	Tend to Coke
		Oil	Water	Oil	Water	Spent Shale	Gas+ Loss		
1	20.0 - 21.0	9.0	1.9	3.4	.8	94.9	.9	.910	N
2	21.0 - 22.0	10.7	2.4	4.0	1.0	94.0	1.0	.907	N
3	22.0 - 23.0	20.2	2.2	7.6	.9	90.7	.8	.907	N
4	23.0 - 24.0	42.3	3.6	16.1	1.5	79.3	3.1	.913	N
5	24.0 - 25.0	19.8	1.9	7.4	.8	90.2	1.6	.898	N
6	25.0 - 26.0	20.8	1.9	7.8	.8	89.7	1.7	.903	N
7	26.0 - 27.0	31.3	2.2	11.8	.9	85.3	2.0	.902	N
8	27.0 - 28.0	36.7	1.9	13.9	.8	83.0	2.3	.907	N
9	28.0 - 29.0	73.6	4.4	27.9	1.8	65.9	4.4	.909	M
10	29.0 - 30.0	61.7	4.3	23.3	1.8	70.7	4.3	.903	M
11	30.0 - 31.0	42.4	2.7	16.1	1.1	79.7	3.1	.908	N
12	31.0 - 32.0	33.6	2.6	12.7	1.1	83.5	2.7	.907	N
13	32.0 - 33.0	24.6	1.6	9.4	.7	88.0	1.9	.919	N
14	33.0 - 34.0	19.6	1.2	7.5	.5	90.4	1.6	.911	N
15	34.0 - 35.0	17.4	1.7	6.7	.7	91.0	1.6	.923	N
16	35.0 - 36.0	31.5	1.7	12.0	.7	84.9	2.4	.913	N
17	36.0 - 37.0	41.2	2.5	15.5	1.1	80.5	2.9	.899	S
18	37.0 - 38.0	47.2	4.5	17.9	1.9	76.6	3.6	.912	N
19	38.0 - 39.0	48.3	2.6	18.2	1.1	75.1	5.6	.902	M
20	39.0 - 40.0	58.9	3.1	22.2	1.3	72.0	4.6	.902	S
21	40.0 - 41.0	27.7	2.6	10.4	1.1	86.7	1.8	.898	N
22	41.0 - 42.0	21.7	1.9	8.2	.8	89.5	1.5	.904	N
23	42.0 - 43.0	13.8	1.7	5.2	.7	92.9	1.2	.909	N
24	43.0 - 44.0	37.8	3.4	14.5	1.4	81.2	2.9	.921	S
25	44.0 - 45.0	19.6	2.6	7.5	1.1	89.4	2.0	.918	N

Coking Tendency of Spent Shale:
N=none S=slight M=moderate H=heavy



Dickinson Laboratories, Inc.
COAL ANALYSTS

P.O. BOX 12004 • EL PASO TEXAS 79912 • (915) 584-9496

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Date: 07 MAY 82

Lab #: 820303 - GK #3-82

Project: W.D. 36-1

Core Hole: 36-1

Elevation:

Location:

Remarks: 80 SAMPLES; AIR DRIED.

Sample Number	Client ID	Gallons/Ton		Weight Percent				Specific Gravity 60°/60°F	Tend to Coke
		Oil	Water	Oil	Water	Spent Shale	Gas+ Loss		
26	45.0 - 46.0	8.3	2.4	3.2	1.0	95.1	.7	.917	N
27	46.0 - 47.0	10.0	1.4	3.8	.6	94.6	1.0	.918	N
28	47.0 - 48.0	23.2	2.0	8.8	.9	88.7	1.7	.907	N
29	48.0 - 49.0	20.6	2.0	7.8	.9	89.6	1.8	.907	N
30	49.0 - 50.0	21.8	1.7	8.2	.7	89.4	1.7	.897	N
31	50.0 - 51.0	21.5	1.7	8.1	.7	89.4	1.8	.904	N
32	51.0 - 52.0	25.4	1.9	9.6	.8	87.6	2.0	.905	N
33	52.0 - 53.0	13.1	1.9	5.0	.8	92.6	1.6	.917	N
34	53.0 - 54.0	9.6	1.4	3.7	.6	94.6	1.1	.920	N
35	54.0 - 55.0	10.7	1.7	4.1	.7	94.0	1.2	.918	N
36	55.0 - 56.0	23.0	2.2	8.9	.9	88.8	1.5	.920	S
37	56.0 - 57.0	8.5	2.2	3.3	.9	94.8	1.0	.916	N
38	57.0 - 58.0	4.9 a	1.6	1.9	.7	96.6	.9	.920	N
39	58.0 - 59.0	5.1 a	1.9	2.0	.8	96.6	.7	.920	N
40	59.0 - 60.0	11.4	1.9	4.3	.8	93.9	1.0	.903	N
41	60.0 - 61.0	5.4	6.1	2.1	2.6	94.2	1.2	.914	N
42	61.0 - 62.0	29.4	2.6	11.3	1.1	85.3	2.4	.917	N
43	62.0 - 63.0	7.6	1.9	2.9	.8	95.2	1.1	.907	N
44	63.0 - 64.0	10.5	1.9	4.0	.8	93.9	1.3	.906	N
45	64.0 - 65.0	16.8	2.2	6.4	.9	90.9	1.8	.916	N
46	65.0 - 66.0	3.7 a	2.0	1.4	.9	96.8	.9	.920	N
47	66.0 - 67.0	11.2 a	3.8	4.3	1.6	92.8	1.3	.918	N
48	67.0 - 68.0	9.9	6.8	3.8	2.9	92.1	1.3	.920	N
49	68.0 - 69.0	2.4 a	1.9	.9	.8	97.7	.6	.920	N
50	69.0 - 70.0	4.6 a	1.7	1.8	.7	96.7	.8	.920	N

Coking Tendency of Spent Shale:
N=none S=slight M=moderate H=heavy

a = Specific gravity estimated @ 0.920

OIL SHALE ASSAY REPORT

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GEOKINETICS, INC.
582 NORTH VERNAL AVE.
VERNAL, UT 84078

Date: 07 MAY 82

Lab #: 820383 - GK #3-82

Project: W.D. 36-1

Core Hole: 36-1

Elevation:

Location:

Remarks: 80 SAMPLES; AIR DRIED.

Sample Number	Client ID	Gallons/Ton		Weight Percent				Specific Gravity 60°/60°F	Tend to Coke
		Oil	Water	Oil	Water	Spent Shale	Gas+ Loss		
51	70.0 - 71.0	3.0 a	1.7	1.1	.7	97.6	.6	.920	N
52	71.0 - 72.0	1.6 a	1.4	.6	.6	98.2	.6	.920	N
53	72.0 - 73.0	2.0 a	1.2	.8	.5	98.2	.5	.920	N
54	73.0 - 74.0	11.3	1.4	4.3	.6	94.1	1.0	.910	N
55	74.0 - 75.0	6.9 a	1.7	2.6	.7	95.8	.9	.904	N
56	75.0 - 76.0	14.0	1.7	5.2	.7	92.8	1.3	.895	N
57	76.0 - 77.0	10.1	1.7	2.8	.7	94.8	.7	.896	N
58	77.0 - 78.0	9.5	1.7	3.6	.7	94.7	1.0	.903	N
59	78.0 - 79.0	2.8 a	3.4	1.1	1.4	96.9	.6	.920	N
60	79.0 - 80.0	4.3 a	1.9	1.7	.8	96.8	.8	.920	N
61	80.0 - 81.0	5.9	1.7	2.2	.7	96.6	.5	.909	N
62	81.0 - 82.0	3.8 a	4.3	1.4	1.8	96.1	.7	.920	N
63	82.0 - 83.0	4.9 a	4.6	1.9	1.9	95.7	.5	.920	N
64	83.0 - 84.0	1.4 a	3.4	.6	1.4	97.6	.5	.920	N
65	84.0 - 85.0	4.8 a	1.2	1.9	.5	96.8	.8	.920	N
66	85.0 - 86.0	15.8	3.6	5.9	1.5	91.2	1.4	.896	N
67	86.0 - 87.0	9.9	3.1	3.8	1.3	93.9	1.1	.904	N
68	87.0 - 88.0	3.6 a	2.2	1.4	.9	97.3	.4	.920	N
69	88.0 - 89.0	2.7 a	2.2	1.1	.9	97.6	.5	.920	N
70	89.0 - 90.0	2.5 a	3.8	1.0	1.6	96.9	.5	.920	N
71	90.0 - 91.0	18.8	.5	7.3	.2	91.2	1.3	.924	N
72	91.0 - 92.0	21.9	.5	8.4	.2	90.6	.9	.912	N
73	92.0 - 93.0	15.3	.5	5.9	.2	92.9	1.1	.918	N
74	93.0 - 94.0	8.4	1.0	3.2	.4	95.6	.8	.912	N
75	94.0 - 95.0	13.4	.5	5.1	.2	93.9	.8	.915	N

Coking Tendency of Spent Shale:
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Project: W.D. 36-1

Core Hole: 36-1

Elevation:

Location:

Remarks: 80 SAMPLES; AIR DRIED.

Sample Number	Client ID	Gallons/Ton		Weight Percent				Specific Gravity 60°/60°F	Tend to Coke
		Oil	Water	Oil	Water	Spent Shale	Gas+ Loss		
76	95.0 - 96.0	12.2	1.0	4.7	.4	94.3	.6	.916	N
77	96.0 - 97.0	10.6	1.0	4.1	.4	95.1	.4	.915	N
78	97.0 - 98.0	10.2	.7	3.9	.3	95.4	.4	.915	N
79	98.0 - 99.0	0.6	1.3	.0	.5	99.1	.4	.920	N
80	99.0 - 99.8	0.0	1.2	0.0	.5	99.3	.2	.920	N

Coking Tendency of Spent Shale:

N=none S=slight M=moderate H=heavy

t = Trace of Oil